

Tucson Electric Power Company

TO: PSWG METERING SUBCOMMITTEE

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SUBJECT: Definitions for KYZ Output and Meter Pulse Constant Ke.

The Field Names and Definitions for KYZ Output and Meter Pulse Constant Ke on the MIRN and EMI forms should be basically the same. They both have a Ke value, which is defined as the kilowatt-hour per pulse in the Handbook for Electricity Metering. When calculating the kilowatt-hour constant (kWhc) the CT & VT sizes must be taken into consideration for transformer rated installations.

KYZ Output, as defined in the Handbook for Electricity Metering, is a three-wire pulse output from a metering device to drive external control or recording equipment... Therefore it is suggested that kWhc be added to KYZ Output Field Name to indicate this is requiring a constant value per pulse or AKA KYZ Output Constant (Ke). This value should be calculated for a 3-wire connection since the Field Name indicates KYZ. There should be an additional Field Name below this one to indicate a 2-wire or 3-wire connection to the external device. This will determine the actual kWhc for the device.

The Meter Pulse Constant Ke is the kWhc for the recorder under glass or internal recorder of the meter. This value is calculated as 3-wire only.

The following are suggested File Names, Definitions, Requirements, etc.

FIELD NAME	FIELD DEFINITION	FIELD SIZE	FIELD TYPE	FORMAT	FIELD REQUIREMENT (B. S. TO D.A.)	FIELD REQUIREMENT (D. A. TO B. S.)
KYZ Output (kWhc)	Kilowatt-hours per pulse constant calculated for 3-wire connection.	6	C	4 decimal places	C	O
KYZ Output 2 or 3 wire	Number of output wires connected to the device.	1	I		C	O
Meter Pulse Constant (kWhc)	Kilowatt-hours per pulse constant for the internal recorder of the meter.	6	C	4 decimal places	C	O